

FIG. 1

PRIOR ART

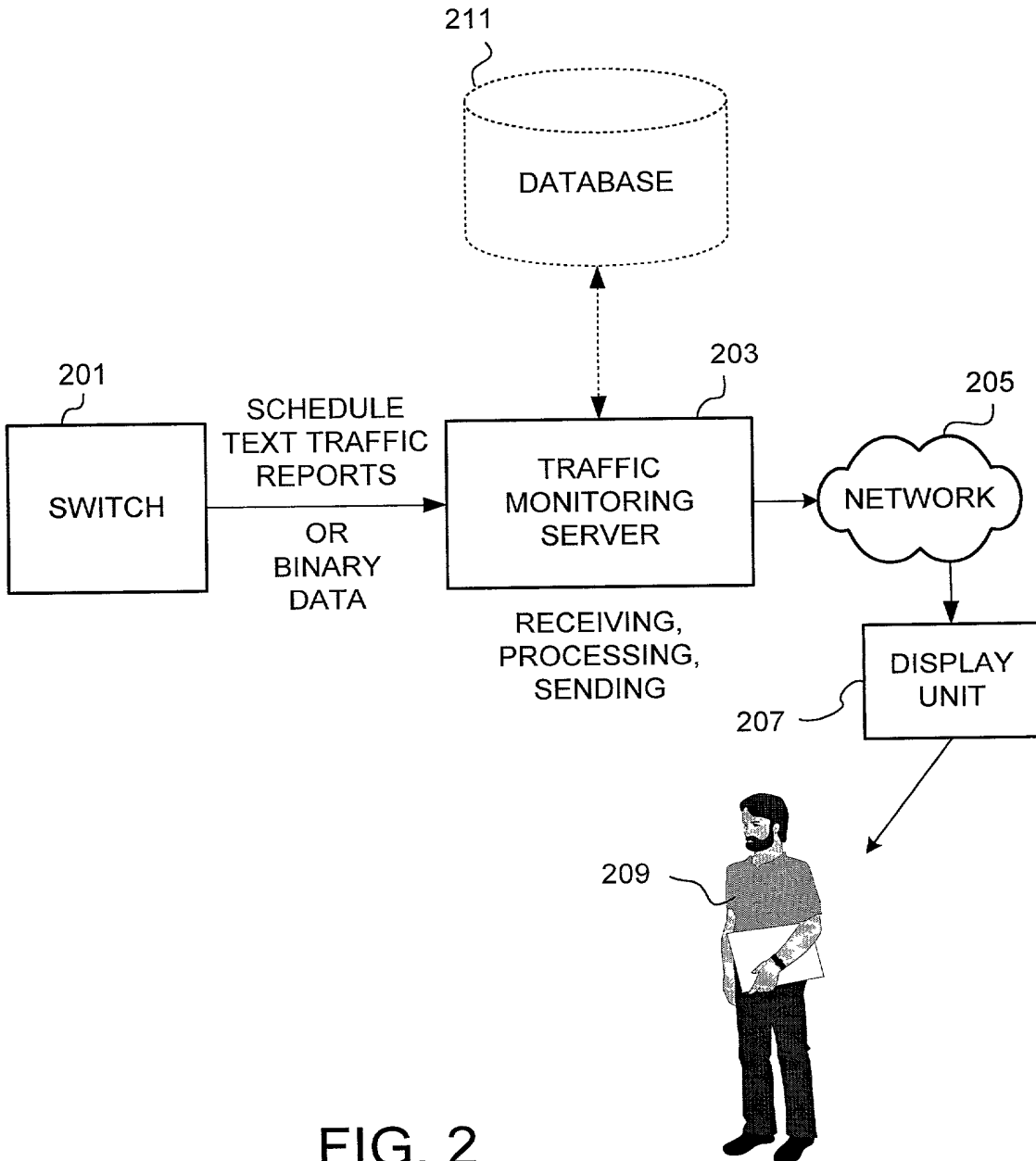


FIG. 2

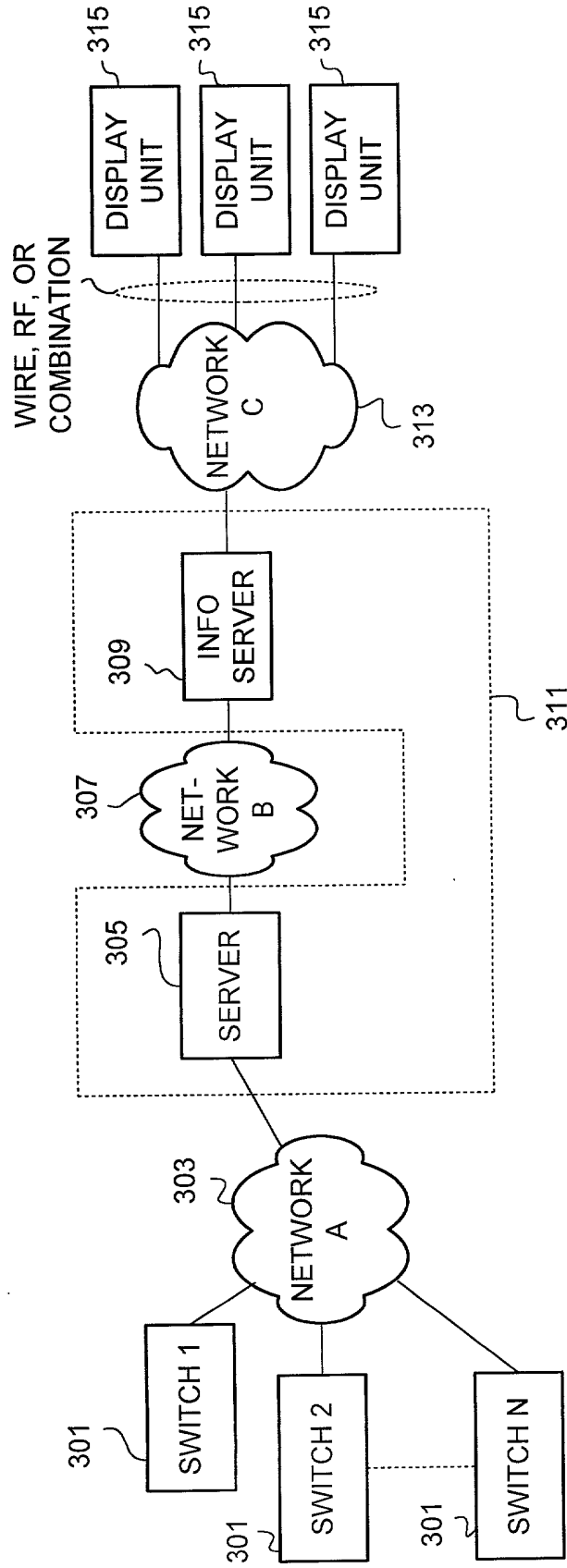


FIG. 3

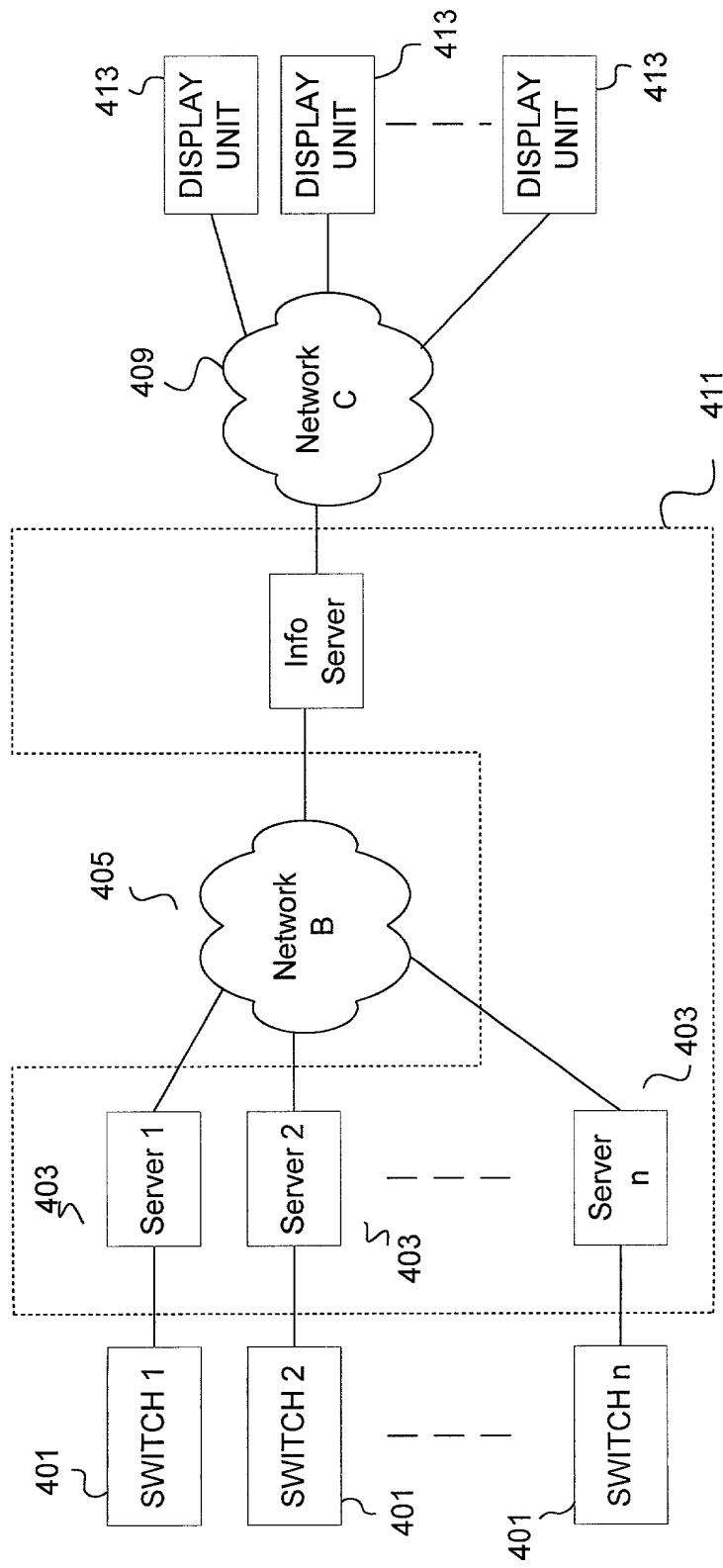


FIG. 4

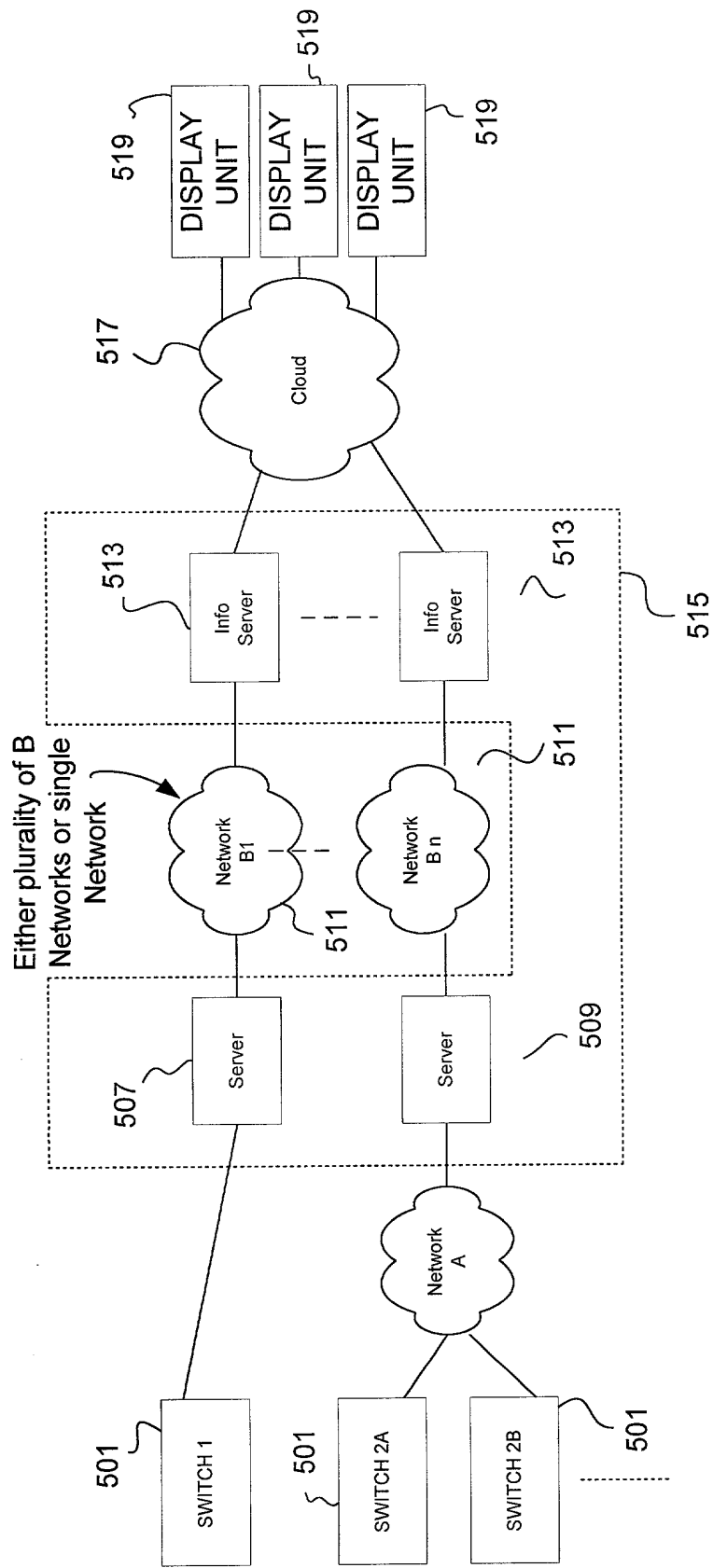


FIG. 5

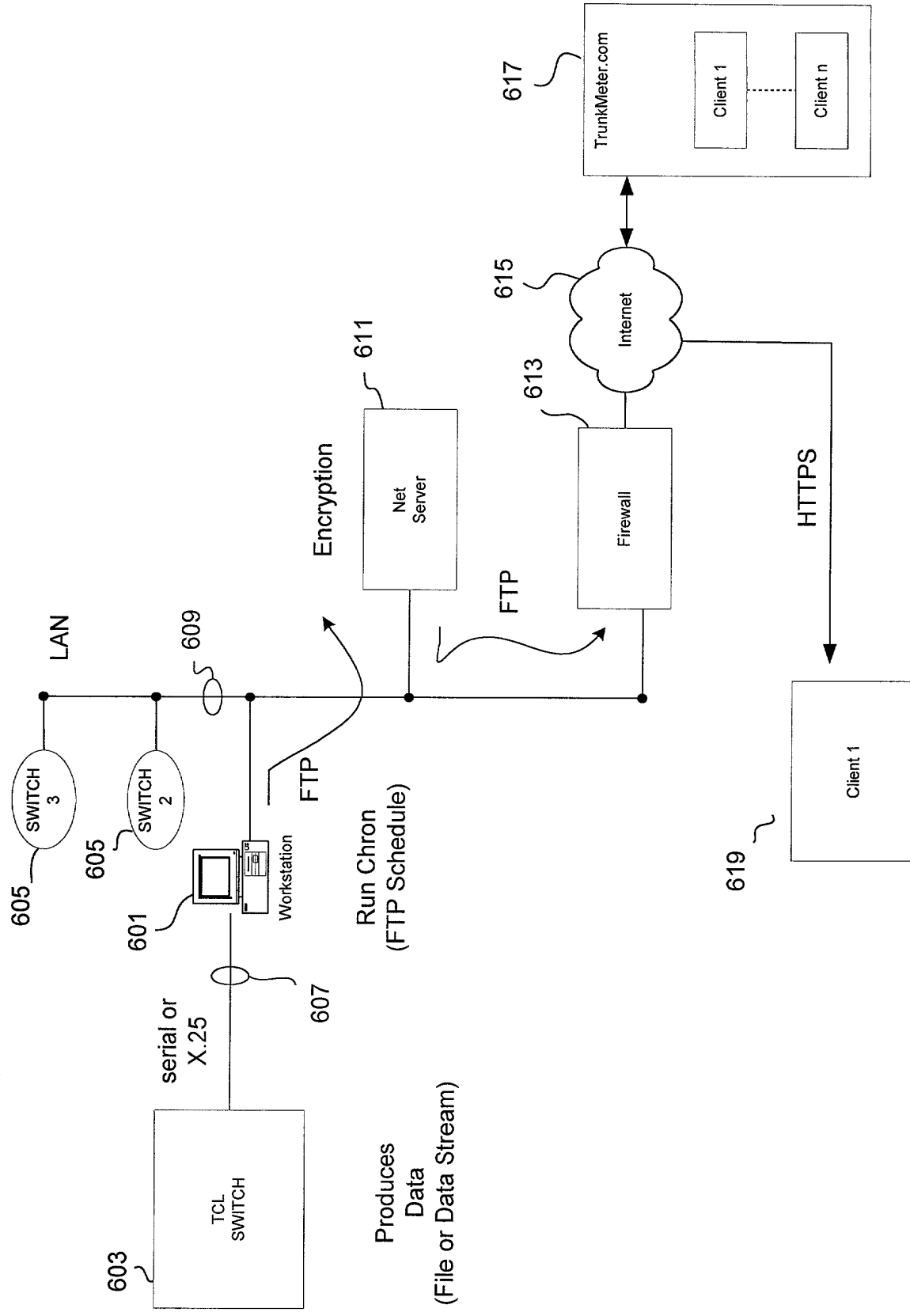
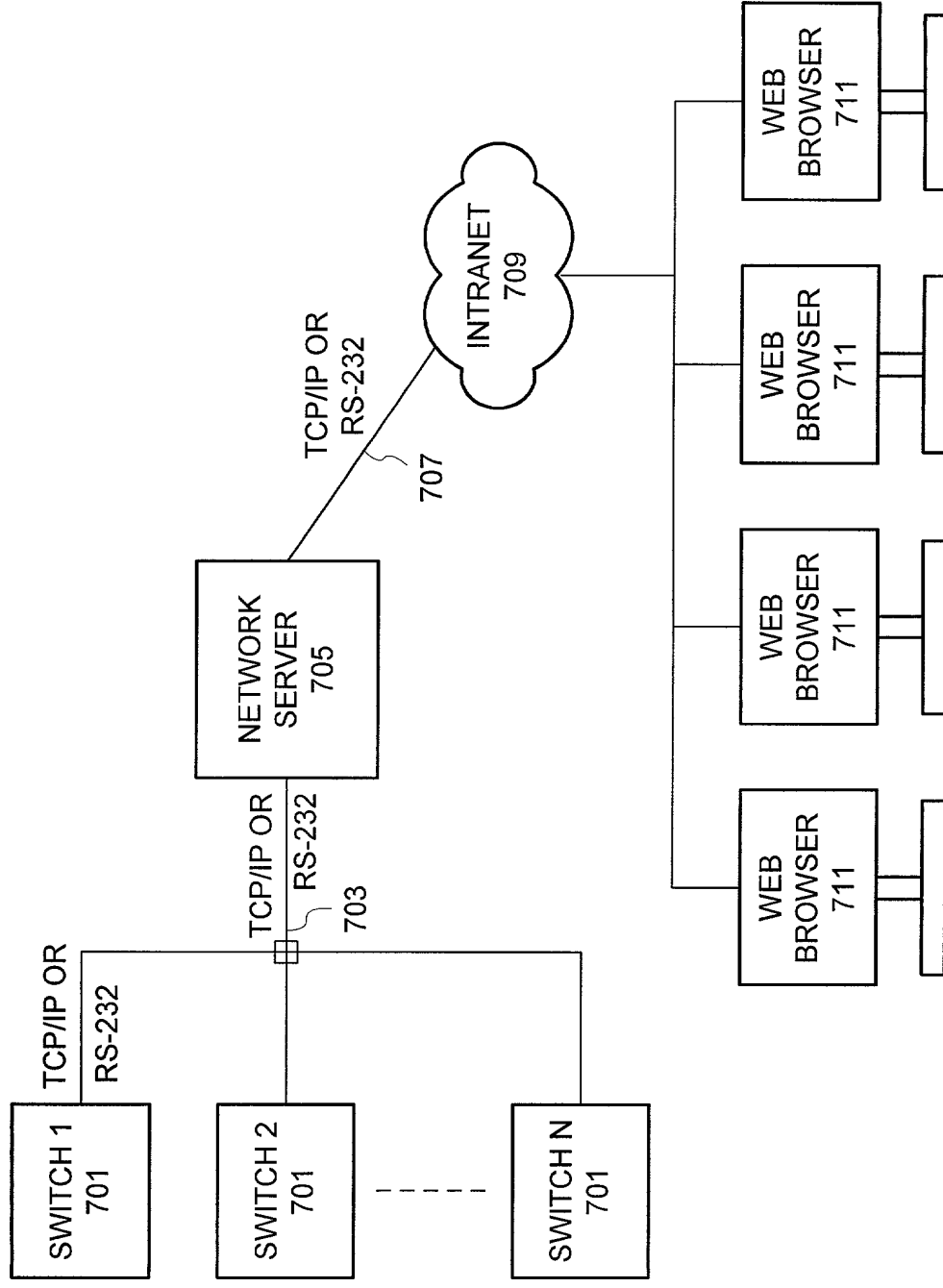


Fig. 6



Home		Help		Switch Traffic Status Display			
Switch ID	Latest Data	# TGs in Overflow	# TGs >90% Util	Switch ID	Latest Data	# TGs in Overflow	# TGs >90% Util
<u>Penryn</u>	9/2/99 09:00	2		<u>Colfax</u>	9/2/99 11:00		
<u>Auburn</u>	9/2/99 10:00	3		<u>Soda Springs</u>	9/2/99 10:00	1	
<u>Yuba City</u>	9/2/99 10:00	2					

FIG. 8

Home Help Index Display: Basic Overflow OOS Trunks Full Peak Usage Raw Data Out Avail
Sort: ASR TG Sizing

Soda Springs Hourly Traffic Start: 02-Sep-99 09:00 Stop: 02-Sep-99 10:00

Trunk Group	Utilization (Erlang B P.01)	OOS Trunks	OG Ovfl	Trunk Group Description	Messages	History
T0721	79 %			Collax 2 way	View	View
T0731	84 %			Pentyn Incoming	View	View
T0822	60 %			SCRM01	View	View
T0724	59 %			Yuba City Tandem	View	View
T0771	38 %			Auburn PSAP	View	View
T0841	23 %			Yolo Tie 2way	View	View
T0863	22 %			Woodland 2w - under test	View	View
T0623	21 %	1	68 (6%)	Voice Mail	View	View
T0722	20 %			PRI to Customer Care	View	View
T0772	20 %			Directory Assistance	View	View
T0862	20 %			Operator Svcs	View	View
T0861	20 %			Modem Pool	View	View
T0842	17 %			Acme Door Corp DID	View	View
T0733	16 %			Acme Door DOD	View	View
T0725	12 %				View	View
T0726	8 %				View	View

FIG. 9

Display:

Basic

Peak Usage

Raw Data

Data Avail

Home

Help

Index

Sort:

Overflow

OOS Trunks

MHT

ASR

TG Sizing

Soda Springs Hourly Traffic Start: 02-Sep-99 09:00 Stop: 02-Sep-99 10:00

Trunk Group	Utilization (Erlang B P.01)	OOS Trunks	OG Trunks	OG Ovfl	Trunks	Trunks Avail	MHT (sec)	OG ASR	CCS/Tr	Call Att	Ca	IC
T0721	79 %		155		192	122	85 %	4886	1936	2		
T0731	64 %		31		44	107	84 %	761	409	2		
T0822	60 %		91		144	140	82 %	2705	0	1		
T0724	59 %		9		12	71	-	125	175			
T0771	38 %		7		12	159	98 %	81	0			
T0841	23 %		9		24	53	98 %	126	0	2		
T0863	22 %		21		71	143	71 %	452	220			
T0823	21 %	1	21	68 (6%)	72	44	77 %	436	3	1		
T0722	20 %		3		6	78	-	14	18			
T0772	20 %		5		12	93	-	42	45			
T0862	20 %		14		48	66	-	257	389			
T0861	20 %		14		48	67	92 %	257	0	3		
T0842	17 %		8		24	59	-	91	153			
T0733	16 %		7		24	82	-	89	109			
T0725	12 %		6		24	78	-	67	86			
T0726	18 %		5		24	65	-	43	66			

FIG. 10

Home	Help	Index	Display:	Basic	Full	Peak Usage	Raw Data	Data Avail
			Sort:	Overflow	OOS Trunks	MHT	ASR	TG Sizing
Soda Springs 30 day Peak Usage as of: 02-Sep-99 10:00								
CSV/normal								

Trunk Group	Peak Utilization (Erlang B P.01)	Peak CCS/Hr	Peak OG Ovl	Date of Peak	Peak Hour	Peak TrksReqd at Peak	TrksAvail Current
T0721	102 %	6306		9/1/99	16:00	196	192
T0731	88 %	1034		8/31/99	16:00	40	44
T0723	87 %	60		8/26/99	15:00	6	6
T0724	85 %	180		8/31/99	17:00	11	12
T0822	75 %	3419		9/1/99	16:00	112	144
T0771	67 %	141		8/20/99	09:00	10	12
T0722	64 %	44		9/1/99	11:00	5	6
T0841	63 %	330		8/27/99	17:00	17	23
T0725	55 %	305		9/1/99	16:00	16	24
T0861	44 %	569		8/30/99	17:00	25	48
T0862	44 %	568		8/30/99	17:00	25	48
T0842	42 %	231		8/20/99	16:00	13	24
T0733	38 %	207		8/27/99	15:00	12	24
T0772	34 %	73		8/24/99	12:00	7	12
T0623	31 %	638	6%	8/27/99	16:00	27	72
T0863	28 %	581		8/30/99	20:00	26	71

FIG.11

FIG. 12

Display:		Basic	Full	Peak Usage	Raw Data	Data
Sort:		Overflow	OOS Trunks	MHT	ASR	TG:
Home	Help	Index				

Soda Springs Raw Traffic Data Start: 02-Sep-99 09:00 Stop: 02-Sep-99 10:00

Hour 10

SW 01 09/02/99 09:00 09/02/99 10:00

T0001	17	00009	00000	00000	00000	00000	00000	00000	00033	00000	00000	00000
		00000	000000431	00000								
T0002	17	00010	00000	00000	00000	00000	00000	00000	00008	00000	00000	00000
		00000	000000141	00000								
T0003	17	00011	00000	00000	00000	00000	00000	00000	00013	00000	00000	00000
		00000	000000192	00000								
T0004	17	00009	00000	00000	00000	00000	00000	00000	00003	00000	00000	00000
		00000	000000091	00000								
T0005	17	00008	00000	00000	00000	00000	00000	00000	00011	00000	00000	00000
		00000	000000133	00000								
T0006	17	00008	00000	00000	00000	00000	00000	00000	00012	00000	00000	00000
		00000	000000238	00000								
T0007	17	00006	00000	00000	00000	00000	00000	00000	00007	00000	00000	00000
		00000	000000089	00000								
T0008	17	00011	00000	00000	00000	00000	00000	00000	00015	00000	00000	00000
		00019	000000234	00000								
T0009	17	00006	00000	00000	00000	00000	00000	00000	00004	00000	00000	00000
		00000	000000053	00000								
T0010	17	00006	00000	00000	00000	00000	00000	00000	00009	00000	00000	00000
		00000	000000073	00000								
T0011	17	00011	00000	00000	00000	00000	00000	00000	00014	00000	00000	00000
		00000	000000131	00000								
T0012	17	00007	00000	00000	00000	00000	00000	00000	00017	00000	00000	00000
		00000	000000214	00000								
T0013	17	00007	00000	00000	00000	00000	00000	00000	00013	00000	00000	00000
		00000	000000167	00000								
T0014	17	00006	00000	00000	00000	00000	00000	00000	00010	00000	00000	00000
		00000	000000120	00000								
T0015	17	00006	00000	00000	00000	00000	00000	00000	00009	00000	00000	00000
		00000	000000064	00000								
T0016	17	00007	00000	00000	00000	00000	00000	00000	00021	00000	00000	00000
		00000	000000286	00000								
T0018	17	00009	00000	00000	00000	00000	00000	00000	00015	00000	00000	00000
		00000	000000247	00000								
T0019	17	00006	00000	00000	00000	00000	00000	00000	00004	00000	00000	00000
		00000	000000059	00000								
T0020	17	00006	00000	00000	00000	00000	00000	00000	00015	00000	00000	00000
		00000	000000128	00000								
T0021	17	00010	00000	00000	00000	00000	00000	00000	00047	00000	00000	00000
		00000	000000495	00000								
T0022	17	00013	00000	00000	00000	00000	00000	00000	00053	00000	00000	00000
		00000	000000772	00000								
T0023	17	00006	00000	00000	00000	00000	00000	00000	00007	00000	00000	00000
		00000	000000101	00000								
T0024	17	00006	00000	00000	00000	00000	00000	00000	00006	00000	00000	00000
		00000	000000111	00000								
T0025	17	00008	00000	00000	00000	00000	00000	00000	00021	00000	00000	00000
		00000	000000228	00000								
T0026	17	00007	00000	00000	00000	00000	00000	00000	00007	00000	00000	00000
		00000	000000083	00000								

09/02/99 09:00 09/02/99 10:00

092443 2134260

			Display:		Basic	Full	Peak Usage	Raw Data	Data															
Home	Help	Index	Sort:		Overflow	QOS Trunks	MHT	ASR	TG															
Soda Springs 30 Day Data Availability						Data Available		L Latest Data	nd No Data															
	Hour																							
Date	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
10-Aug-99																								
11-Aug-99			nd	nd	nd	nd	nd																	
12-Aug-99																		nd						
13-Aug-99								nd	nd				nd				nd							
14-Aug-99										nd														
15-Aug-99																					nd	nd	nd	nd
16-Aug-99	nd	nd	nd	nd	nd	nd	nd	nd										nd						
17-Aug-99				nd	nd																	nd	nd	
18-Aug-99			nd						nd		nd													
19-Aug-99										nd		nd	nd				nd	nd	nd	nd	nd	nd	nd	nd
20-Aug-99	nd	nd	nd	nd	nd	nd	nd																	
21-Aug-99																								
22-Aug-99																								
23-Aug-99										nd	nd					nd	nd							
24-Aug-99														nd										
25-Aug-99																								
26-Aug-99															nd	nd								
27-Aug-99																						nd	nd	nd
28-Aug-99	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
29-Aug-99	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
30-Aug-99	nd	nd	nd	nd	nd	nd	nd	nd				nd										nd	nd	nd
31-Aug-99	nd	nd	nd	nd	nd																			
01-Sep-99																								
02-Sep-99										L														

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FIG. 13

Display: Basic Full Peak Usage Raw Data Data Avail
 Sort: Overflow OOS Trunks MHT ASR TG Sizing

Soda Springs Hourly Traffic (Overflow Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group	Utilization (Erlang B P.01)	OG Ovfl 81 (6%)	OOS Trunks	Current TrksReqd	Current TrksAvail	MHT (sec)	OG ASR
T0623	23 %			22	72	46	77 %
T0721	86 %			167	192	118	84 %
T0724	78 %			11	12	83	*
T0822	66 %			100	144	135	80 %
T0731	63 %			31	44	98	87 %
T0771	41 %			7	12	187	91 %
T0723	35 %			4	6	120	*
T0862	31 %			20	48	82	-
T0861	31 %			20	48	84	91 %
T0841	30 %			11	24	52	99 %
T0772	25 %			6	12	137	-
T0863	22 %			21	72	118	77 %
T0842	21 %			9	24	56	-
T0733	17 %			8	24	59	*
T0725	17 %			8	24	86	-
T0726	9 %			5	24	47	-

FIG. 14

Home Help Index Display: Basic Full Peak Usage Raw Data Data Avail
Sort: OOS Trunks MHT ASR TQ Sizing

Soda Springs Hourly Traffic(OOS Trunks Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group	Utilization (Erlang B P.01)	OOS Trunks	OOS Ovfl	Current TrksReqd	Current TrksAvail	MHT (sec)	OG ASR
T0624	0%	96	0	0	-	-	-
T0751	0%	24	0	0	-	-	-
T0884	0%	24	0	0	-	-	-
T0621	0%	1	0	23	-	-	-
T0622	0%	1	0	23	-	-	-
T0771	41%		7	12	187	91%	
T0723	35%		4	6	120	*	
T0862	31%		20	48	82	-	
T0861	31%		20	48	84	91%	
T0841	30%		11	24	52	99%	
T0772	25%		6	12	137	-	
T0863	22%		21	72	118	77%	
T0842	21%		9	24	56	-	
T0733	17%		8	24	59	*	
T0725	17%		8	24	86	-	
T0726	9%		5	24	47	-	

FIG.15

Display:

Home Help Index Sort: Basic Overflow OOS Trunks Full Peak Usage MHT Raw Data ASR Data Avail TG Sizing

Soda Springs Hourly Traffic (MHT Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group	Utilization (Erlang B P.01)	MHT (sec)	OOS Trunks	OG Ovfl	Current TrksReqd	Current TrksAvail	OG ASR
T0732	0.9%	9			2	24	-
T0623	23%	46		61 (6%)	22	72	77%
T0726	9%	47			5	24	-
T0722	7%	50			2	6	-
T0841	30%	52			11	24	99%
T0842	21%	56			9	24	-
T0733	17%	59			8	24	-
T0862	31%	82			20	48	-
T0724	78%	83			11	12	-
T0861	31%	84			20	48	91%
T0725	17%	86			8	24	-
T0731	63%	98			31	44	87%
T0700	0.4%	100			2	24	100%
T0721	86%	118			167	192	84%
T0863	22%	118			21	72	77%
T0723	35%	120			4	6	-

FIG. 1b

Home Help Index Display: Basic Overflow OOS Trunks Peak Usage MHT Raw Data ASR Data Avail TG Sizing

Soda Springs Hourly Traffic (ASR Sorted) Start: 02-Sep-99 10:00 Stop: 02-Sep-99 11:00

Trunk Group	Utilization (Erlang B P.01)	OG ASR	OOS Trunks	OG Ovfl	Trunks Reqd	Trunks Avail	MHT (sec)
T0623	23 %	77 %		61 (6%)	22	72	46
T0863	22 %	77 %			21	72	118
T0822	66 %	80 %			100	144	135
T0721	86 %	84 %			167	192	118
T0731	63 %	87 %			31	44	98
T0771	41 %	91 %			7	12	187
T0861	31 %	91 %			20	48	84
T0841	30 %	99 %			11	24	52
T0700	0.4 %	100 %			2	24	100
T0862	31 %	-			20	48	82
T0772	25 %	-			6	12	137
T0842	21 %	-			9	24	56
T0725	17 %	-			8	24	86
T0726	9 %	-			5	24	47
T0722	7 %	-			2	6	50
T0732	0.9 %	-			2	24	9

FIG.17

Display: Basic Overflow OOS Trunks Full Peak Usage Raw Data Data Avail
Sort: MHT ASR TQ Sizing

Home	Help	Index	Soda Springs Trunk Group Sizing Analysis for Peak Usage as of: 02-Sep-99 11:00									
Trunk Group	Peak Utilization (Erlang B P.01)	Over/Under Trunking	Peak TrksReqd	Current TrksAvail	Peak OG Ovfl							
Trunk Groups without enough capacity												
T0721												
Trunk Groups with sufficient or extra capacity												
T0863	28 %	+ 46	26	72	6%							
T0623	31 %	+ 45	27	72								
T0822	75 %	+ 32	112	144								
T0224	0%	+ 24	0	24								
T0843	0%	+ 24	0	24								
T0225	0%	+ 24	0	24								
T0861	44 %	+ 23	25	48								
T0621	0%	+ 23	0	23								
T0622	0%	+ 23	0	23								
T0862	44 %	+ 23	25	48								
T0702	0.7%	+ 22	2	24								
T0732	7 %	+ 19	5	24								
T0700	8 %	+ 19	5	24								
T0726	26 %	+ 14	10	24								

FIG.18